D. KRUSL

Re-RUN



1600

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/804,733C

DATE: 03/04/2003 TIME: 14:52:01

Input Set : N:\vernette\US09804733C.raw
Output Set: N:\CRF4\03042003\I804733C.raw

```
1 <110> APPLICANT: WANG, QI ET AL.
      2 <120> TITLE OF INVENTION: RECOMBINANT PROTEINS CONTAINING REPEATING UNITS
      3 <130> FILE REFERENCE: MONS:016US
C--> 4 <140> CURRENT APPLICATION NUMBER: US/09/804,733C
      5 <141> CURRENT FILING DATE: 2001-03-13
      6 <150> PRIOR APPLICATION NUMBER: PCT/US01/07957
      7 <151> PRIOR FILING DATE: 2001-03-13
      8 <160> NUMBER OF SEQ ID NOS: 29
      9 <170> SOFTWARE: PatentIn Ver. 2.1
     11 <210> SEQ ID NO: 1
     12 <211> LENGTH: 5
                                                           ENTERED
     13 <212> TYPE: PRT
     14 <213> ORGANISM: Euthynnus pelamis
     15 <400> SEQUENCE: 1
              Leu Lys Pro Asn Met
     17
     19 <210> SEQ ID NO: 2
     20 <211> LENGTH: 4
     21 <212> TYPE: PRT
     22 <213> ORGANISM: Euthynnus pelamis
     23 <400> SEQUENCE: 2
              Lys Pro Asn Met
     24
     25
               1
     27 <210> SEQ ID NO: 3
     28 <211> LENGTH: 4
     29 <212> TYPE: PRT
     30 <213> ORGANISM: Euthynnus pelamis
     31 <400> SEQUENCE: 3
              Val Val Tyr Pro
     32
                1
     33
     35 <210> SEQ ID NO: 4
     36 <211> LENGTH: 15
     37 <212> TYPE: DNA
     38 <213> ORGANISM: Artificial Sequence
     39 <220> FEATURE:
     40 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
              Primer
     41
     42 <220> FEATURE:
     43 <221> NAME/KEY: modified_base
     44 < 222 > LOCATION: (3)..(9)
     45 <223> OTHER INFORMATION: N = A, C, G or T/U
     46 <400> SEQUENCE: 4
                                                                                  15
```

W--> 47

ctnaarccna ayatg

RAW SEQUENCE LISTING

TIME: 14:52:01

DATE: 03/04/2003

PATENT APPLICATION: US/09/804,733C

Input Set : N:\vernette\US09804733C.raw Output Set: N:\CRF4\03042003\1804733C.raw

```
49 <210> SEQ ID NO: 5
    50 <211> LENGTH: 60
    51 <212> TYPE: DNA
    52 <213> ORGANISM: Artificial Sequence
     53 <220> FEATURE:
    54 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
             Primer
     55
    56 <220> FEATURE:
     57 <221> NAME/KEY: modified_base
     58 < 222 > LOCATION: (3)..(54)
    59 <223> OTHER INFORMATION: N = A, C, G, or I/U
     60 <400> SEQUENCE: 5
              ctnaarccna ayatgctnaa rccnaayatg ctnaarccna ayatgctnaa rccnaayatg 60
W--> 61
     63 <210> SEQ ID NO: 6
     64 <211> LENGTH: 60
     65 <212> TYPE: DNA
     66 <213> ORGANISM: Artificial Sequence
     67 <220> FEATURE:
     68 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
              Primer
     69
     70 <220> FEATURE:
     71 <221> NAME/KEY: modified_base
     72 <222> LOCATION: (7)..(58)
     73 <223> OTHER INFORMATION: N = A, C, G or T/U
     74 <400> SEQUENCE: 6
              catrtinggy tinagcatrt inggytinag catrtinggy tinagcatri inggytinag 60
W--> 75
     77 <210> SEQ ID NO: 7
     78 <211> LENGTH: 25
     79 <212> TYPE: DNA
     80 <213> ORGANISM: Artificial Sequence
     81 <220> FEATURE:
     82 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
              Primer
     84 <220> FEATURE:
     85 <221> NAME/KEY: modified_base
     86 <222> LOCATION: (12)..(18)
     87 <223> OTHER INFORMATION: N = A, C, G or T/U
     88 <400> SEQUENCE: 7
                                                                                   25
              aaagaattcc tnaarccnaa yatgc
W--> 89
     91 <210> SEQ ID NO: 8
     92 <211> LENGTH: 27
     93 <212> TYPE: DNA
     94 <213> ORGANISM: Artificial Sequence
      95 <220> FEATURE:
     96 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
               Primer
      97
      98 <220> FEATURE:
      99 <221> NAME/KEY: modified_base
      100 <222> LOCATION: (18)..(24)
```

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/804,733C TIME: 14:52:01

DATE: 03/04/2003

Input Set : N:\vernette\US09804733C.raw
Output Set: N:\CRF4\03042003\I804733C.raw

101 <223> OTHER INFORMATION: N = A, C, G or T/U102 <400> SEQUENCE: 8 27 aaagcggccg ccatrttngg yttnagc W--> 103105 <210> SEQ ID NO: 9 106 <211> LENGTH: 20 107 <212> TYPE: DNA 108 <213> ORGANISM: Artificial Sequence 109 <220> FEATURE: 110 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic Primer 111 112 <400> SEQUENCE: 9 20 taatacgact cactataggg 115 <210> SEQ ID NO: 10 116 <211> LENGTH: 19 117 <212> TYPE: DNA 118 <213> ORGANISM: Artificial Sequence 119 <220> FEATURE: 120 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic Primer 121 122 <400> SEQUENCE: 10 19 cgatcaataa cgagtcgcc 123 125 <210> SEQ ID NO: 11 126 <211> LENGTH: 48 127 <212> TYPE: DNA 128 <213> ORGANISM: Artificial Sequence 129 <220> FEATURE: 130 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic Primer 131 132 <220> FEATURE: 133 <221> NAME/KEY: modified\_base 134 <222> LOCATION: (3)..(48) 135 <223> OTHER INFORMATION: N = A, C, G or T/U136 <400> SEQUENCE: 11 48 gtngtntayc engtngtnta yeengtngtn tayeengtng tntayeen W--> 137139 <210> SEQ ID NO: 12 140 <211> LENGTH: 48 141 <212> TYPE: DNA 142 <213> ORGANISM: Artificial Sequence 143 <220> FEATURE: 144 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic 145 Primer 146 <220> FEATURE: 147 <221> NAME/KEY: modified\_base 148 <222> LOCATION: (1)..(46) 149 <223> OTHER INFORMATION: N = A, C, G or T/U 150 <400> SEQUENCE: 12 48 nggrtanacn acnggrtana cnacnggrta nacnacnggr tanacnac W--> 151 153 <210> SEQ ID NO: 13 154 <211> LENGTH: 33

RAW SEQUENCE LISTING DATE: 03/04/2003 PATENT APPLICATION: US/09/804,733C TIME: 14:52:01

Input Set : N:\vernette\US09804733C.raw
Output Set: N:\CRF4\03042003\I804733C.raw

155 <212> TYPE: DNA 156 <213> ORGANISM: Artificial Sequence 157 <220 > FEATURE: 158 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic Primer 159 160 <220 > FEATURE: 161 <221> NAME/KEY: modified\_base 162 <222> LOCATION: (12)..(33) 163 <223> OTHER INFORMATION: N = A, C, G or T/U 164 <400> SEQUENCE: 13 33 aaaggatccg tngtntaycc ngtngtntay ccn W - - > 165167 <210> SEQ ID NO: 14 168 <211> LENGTH: 33 169 <212> TYPE: DNA 170 <213> ORGANISM: Artificial Sequence 171 <220> FEATURE: 172 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic 173 Primer 174 <220> FEATURE: 175 <221> NAME/KEY: modified\_base 176 <222> LOCATION: (10)..(31) 177 <223> OTHER INFORMATION: N = A, C, G or T/U 178 <400> SEQUENCE: 14 33 cccaagcttn ggrtanacna cnggrtanac nac W--> 179181 <210> SEQ ID NO: 15 182 <211> LENGTH: 45 183 <212> TYPE: DNA 184 <213> ORGANISM: Artificial Sequence 185 <220> FEATURE: 186 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic Primer 187 188 <220> FEATURE: 189 <221> NAME/KEY: modified\_base 190 <222> LOCATION: (3)..(45) 191 <223> OTHER INFORMATION: N = A, C, G or T/U192 <400> SEQUENCE: 15 45 gtnccnccng tnccnccngt nccnccngtn ccnccngtnc cnccn W--> 193195 <210> SEQ ID NO: 16 196 <211> LENGTH: 45 197 <212> TYPE: DNA 198 <213> ORGANISM: Artificial Sequence 199 <220> FEATURE: 200 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic 201 Primer 202 <220> FEATURE: 203 <221> NAME/KEY: modified\_base 204 <222> LOCATION: (1)..(43) 205 <223> OTHER INFORMATION: N = A, C, G or T/U206 <400> SEQUENCE: 16

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/804,733C

DATE: 03/04/2003
TIME: 14:52:01

Input Set : N:\vernette\US09804733C.raw
Output Set: N:\CRF4\03042003\I804733C.raw

			•	45
W>	207		nggnggnacn ggnggnacng gnggnacngg nggnacnggn ggnac	3.7
	209	<210>	SEQ ID NO: 17	
	210	<211>	LENGTH: 36	
	211	<212>	TYPE: DNA	
	212	<213>	ORGANISM: Artificial Sequence	
	213	<220>	FEATURE:	
	214	<223>	FEATURE: OTHER INFORMATION: Description of Artificial Sequence: Synthetic	
	215		Primer	
	216	<220>	FEATURE:	
	217	<221>	NAME/KEY: modified_base	
	218	<222>	LOCATION: (12)(36)	
	219	<223>	OTHER INFORMATION: $N = A$ , $C$ , $G$ or $T/U$	
	220	<400>	SEQUENCE: 17	36
M>	221		aaaggateeg tneencengt neencengtn ceneen	
	223	<210>	SEQ ID NO: 18	
			LENGTH: 36	
	225	<212>	TYPE: DNA	
	226	<213>	ORGANISM: Artificial Sequence	
	227	<220>	FEATURE: Synthetic of Artificial Sequence: Synthetic	
	228	<223>	OTHER INFORMATION: Description of Artificial Sequence: Synthetic	
	229		Primer	
	230	<220>	FEATURE:	
	231	< 221>	NAME/KEY: modified_base	
	232	<222>	LOCATION: (10)(34)	
	233	<223>	OTHER INFORMATION: N = A, C, G or T/U	
			SEQUENCE: 18 aataagcttn ggnggnacng gnggnacngg nggnac	36
W>	235		and ID NO. 10	
	237	<210>	SEQ ID NO: 19	
	238	<211>	LENGTH: 8	
	239	<212>	TYPE: PRT ORGANISM: Artificial Sequence	
	241	< 2202	OTHER INFORMATION: Description of Artificial Sequence:m Synthetic	2
			Peptide	
	243		SEQUENCE: 19	
	244		Val Pro Pro Leu Lys Pro Asn Met	
	246		1 5	
			SEQ ID NO: 20	
			LENGTH: 48	
			TYPE: DNA	
	251	<213>	ORGANISM: Artificial Sequence	
	253	3 <223>	FEATURE: OTHER INFORMATION: Description of Artificial Sequence: Synthetic	
	254		Primer	
	255	5 <220>	FEATURE:	
	256	<221>	NAME/KEY: modified_base	
	257	7 2000	> LOCATION: (3)(42)	
	258	3 <223>	OTHER INFORMATION: N = A, C, G or T/U	
	259	< 400>	SEQUENCE: 20	

RAW SEQUENCE LISTING ERROR SUMMARY PATENT APPLICATION: US/09/804,733C DATE: 03/04/2003 TIME: 14:52:02

Input Set : N:\vernette\US09804733C.raw Output Set: N:\CRF4\03042003\I804733C.raw

## Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:4; N Pos. 3,9 Seq#:5; N Pos. 3,9,18,24,33,39,48,54 Seq#:6; N Pos. 7,13,22,28,37,43,52,58 Seq#:7; N Pos. 12,18 Seq#:8; N Pos. 18,24 Seq#:11; N Pos. 3,6,12,15,18,24,27,30,36,39,42,48 Seq#:12; N Pos. 1,7,10,13,19,22,25,31,34,37,43,46 Seq#:13; N Pos. 12,15,21,24,27,33 Seq#:14; N Pos. 10,16,19,22,28,31 Seq#:15; N Pos. 3,6,9,12,15,18,21,24,27,30,33,36,39,42,45 Seq#:16; N Pos. 1,4,7,10,13,16,19,22,25,28,31,34,37,40,43 Seq#:17; N Pos. 12,15,18,21,24,27,30,33,36 Seq#:18; N Pos. 10,13,16,19,22,25,28,31,34 Seq#:20; N Pos. 3,6,9,12,18,27,30,33,36,42 Seq#:21; N Pos. 7,13,16,19,22,31,37,40,43,46 Seq#:22; N Pos. 13,16,19,22,28,37,40,43,46,52 Seq#:23; N Pos. 19,25,28,31,34,40,43,46,55,61,64,67,70,76,79,82 Seq#:25; N Pos. 3,6,9,15,18,21,24,30,39,42,45,51,54,57,60,66 Seq#:26; N Pos. 7,13,16,19,22,28,31,34,43,49,52,55,58,64,67,70 Seq#:27; N Pos. 13,16,19,25,28,31,34,40,49,52,55,61,64,67,70,76 Seq#:28; N Pos. 19,25,28,31,34,40,43,46,55,61,64,67,70,76,79,82 VERIFICATION SUMMARY

PATENT APPLICATION: US/09/804,733C TIME: 14:52:02

DATE: 03/04/2003

Input Set : N:\vernette\US09804733C.raw
Output Set: N:\CRF4\03042003\I804733C.raw

L:4 M:270 C: Current Application Number differs, Wrong Format L:47 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:0 L:61 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:0 L:75 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:0 L:89~M:341~W: (46) "n" or "Xaa" used, for SEQ ID#:7 after pos.:0 L:103 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:0 L:137 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11 after pos.:0 L:151 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:0 L:165 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13 after pos.:0 L:179 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14 after pos.:0 L:193 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15 after pos.:0 L:207 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16 after pos.:0 L:221 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:0 L:235 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18 after pos.:0 L:260 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:20 after pos.:0 L:274 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:21 after pos.:0 L:288 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:22 after pos.:0 L:302 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23 after pos.:0 M:341 Repeated in SeqNo=23 L:328 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:25 after pos.:0 M:341 Repeated in SeqNo=25 L:343 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:26 after pos.:0 M:341 Repeated in SeqNo=26 L:358 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:27 after pos.:0 M:341 Repeated in SeqNo=27 L:373 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:28 after pos.:0 M:341 Repeated in SeqNo=28